

PEPTIDE BETA-STRAND MIMICS BASED ON PYRIDINONES, PYRAZINONES, PYRIDAZINONES, AND TRIAZINONES

ABSTRACT OF THE DISCLOSURE

Peptide analogs in which one or more amino acids is replaced by a diaza- or triazacyclohexenone, or by an aza-, diaza-, or triazacyclohexenone that is substituted at the α -position with a side chain of an amino acid, display an improved ability to assume a β -strand conformation and to enter into β -sheet-like interactions with peptides in an affinity-specific manner. The peptide analogs of this invention therefore have utility as β -strand mimics offering advantages over both native peptides and β -strand mimics of the prior art.

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